

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO
**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**

Date Submitted: April 6, 2009

(use as many sheets as necessary)

Complete if Known

Application Number	10/586,533
Filing Date	02/08/2005
First Named Inventor	Hirofumi YASUDA
Art Unit	1793
Examiner Name	Cam N. NGUYEN
Attorney Docket Number	040302-0579



Sheet 1 of 6

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/CNN/	A1	US-2001/0004832-A1	06-28-2001	HANAKI ET AL.	
	A2	US-2001/0006934-A1	07-05-2001	KACHI ET AL.	
	A3	US-2001/0021358-A1	09-13-2001	KIKUCHI ET AL.	
	A4	US-2002/0045543-A1	04-18-2002	TAKATORI ET AL.	
	A5	US-2003/0004054-A1	01-02-2003	ITO ET AL.	
	A6	US-2003/0083193-A1	05-01-2003	TAKAYA ET AL.	
	A7	US-2003/0167752-A1	09-11-2003	NIWA ET AL.	
	A8	US-2003/0181316-A1	09-25-2003	HIRAMOTO ET AL.	
	A9	US-2004/0055280-A1	03-25-2004	NISHIZAWA ET AL.	
	A10	US-2004/0254069-A1	12-16-2004	ITO, JUNJI	
	A11	US-2005/0170958-A1	08-04-2005	KIKUCHI ET AL.	
	A12	US-2005/0215429-A1	09-29-2005	WAKAMATSU ET AL.	
	A13	US-2005/0221978-A1	10-06-2005	SHIRATORI ET AL.	
	A14	US-2007/0153390-A1	07-05-2007	NAKAMURA ET AL.	
	A15	US-2007/0155626-A1	07-05-2007	YASUDA ET AL.	
	A16	US-2007/0167319-A1	07-19-2007	SHIRATORI ET AL.	
	A17	US-2007/0203021-A1	08-30-2007	NAKAMURA ET AL.	
	A18	US-2007/0244001-A1	10-18-2007	WAKAMATSU ET AL.	
	A19	US-2,980,662	04-18-1961	JEZL	
	A20	US-3,255,020	06-07-1966	FERRELL	
	A21	US-3,286,477	08-16-1966	STILES	
	A22	US-3,357,916	12-12-1967	SMITH	
	A23	US-3,478,329	11-11-1969	ETIENNE DE RUDNAY	
	A24	US-3,531,329	09-29-1970	SELWITZ	
	A25	US-3,649,566	03-14-1972	HAYES ET AL.	
	A26	US-4,255,290	03-10-1981	FLAGG ET AL.	
	A27	US-4,261,862	04-14-1981	KINOSHITA ET AL.	
	A28	US-4,274,981	06-23-1981	SUZUKI ET AL.	
	A29	US-4,369,132	01-18-1983	KINOSHITA ET AL.	
	A30	US-4,374,046	02-15-1983	ANTOS	
	A31	US-4,425,261	01-10-1984	STENIUS ET AL.	
	A32	US-4,440,874	04-03-1984	THOMPSON	
	A33	US-4,444,721	04-24-1984	OHKATA, ICHIZO	
	A34	US-4,495,304	01-22-1985	YOO ET AL.	
	A35	US-4,539,311	09-03-1985	HARRISON ET AL.	
	A36	US-4,548,921	10-22-1985	GEUS ET AL.	
	A37	US-4,716,087	12-29-1987	ITO ET AL.	
	A38	US-4,758,418	07-19-1988	YOO ET AL.	
	A39	US-4,785,874	08-23-1988	MODES ET AL.	
/CNN/	A40	US-4,839,146	06-13-1989	CHO ET AL.	

Examiner Signature /Cam N. Nguyen/

Date Considered

06/04/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to provide to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO
**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**

Date Submitted: April 6, 2009

(use as many sheets as necessary)

Complete if Known

Application Number	10/586,533
Filing Date	02/08/2005
First Named Inventor	Hirofumi YASUDA
Art Unit	1793
Examiner Name	Cam N. NGUYEN
Attorney Docket Number	040302-0579

Sheet 2 of 6

U.S. PATENT DOCUMENTS

	Document Number		
TCNN	A41 US-4,904,633-	02-27-1990	OHATA ET AL.
	A42 US-4,969,265-	11-13-1990	EHARA, HIDEHARU
	A43 US-5,068,218-	11-26-1991	NISHIZAWA
	A44 US-5,108,469-	04-28-1992	CHRIST, MICHAEL
	A45 US-5,112,787-	05-12-1992	FALKE ET AL.
	A46 US-5,248,650-	09-28-1993	SEKIBA ET AL.
	A47 US-5,395,406-	03-07-1995	CLAVENNA ET AL.
	A48 US-5,427,989-	06-27-1995	KANESAKA ET AL.
	A49 US-5,446,003-	08-29-1995	AUGUSTINE ET AL.
	A50 US-5,516,741-	05-14-1996	GASCOYNE ET AL.
	A51 US-5,622,048-	04-22-1997	AOYAMA ET AL.
	A52 US-5,640,847-	06-24-1997	NAKAJIMA ET AL.
	A53 US-5,644,912-	07-08-1997	KAWAMURA
	A54 US-5,677,258-	10-14-1997	KUROKAWA ET AL.
	A55 US-5,750,458-	05-12-1998	KENNELLY ET AL.
	A56 US-5,814,576-	09-29-1998	YAMAMOTO, SHINJI
	A57 US-5,814,577-	09-29-1998	PARK ET AL.
	A58 US-5,849,660-	12-15-1998	TAKEMOTO ET AL.
	A59 US-5,911,961-	06-15-1999	HORIUCHI ET AL.
	A60 US-5,916,839-	06-29-1999	PAK ET AL.
	A61 US-5,977,012-	11-02-1999	KHARAS ET AL.
	A62 US-6,047,544-	04-11-2000	YAMAMOTO ET AL.
	A63 US-6,057,263-	05-02-2000	TAKAHASHI ET AL.
	A64 US-6,066,410-	05-23-2000	AUER ET AL.
	A65 US-6,066,587-	05-23-2000	KUROKAWA ET AL.
	A66 US-6,069,111-	05-30-2000	YAMAMOTO ET AL.
	A67 US-6,080,371-	06-27-2000	TANABE ET AL.
	A68 US-6,107,239-	08-22-2000	QIN ET AL.
	A69 US-6,110,862-	08-29-2000	CHEN ET AL.
	A70 US-6,172,000-B1	01-09-2001	CHATTHA ET AL.
	A71 US-6,180,075-B1	01-30-2001	LINDNER ET AL.
	A72 US-6,221,805-B1	04-24-2001	YAMASHITA ET AL.
	A73 US-6,228,800-B1	05-08-2001	YAMAGUCHI ET AL.
	A74 US-6,284,201-B1	09-04-2001	BUCK, ALFRED
	A75 US-6,296,813-B1	10-02-2001	ISHII ET AL.
	A76 US-6,370,870-	04-16-2002	KAMIJO ET AL.
	A77 US-6,440,378-B1	08-27-2002	HIRATA ET AL.
	A78 US-6,444,610-	09-03-2002	YAMAMOTO, SHINJI
	A79 US-6,475,446-	11-05-2002	HORIKE ET AL.
	A80 US-6,503,862-	01-07-2003	YAMAMOTO, SHINJI
	A81 US-6,511,642-B1	01-28-2003	HATANAKA ET AL.
TCNN	A82 US-6,514,905-B1	02-04-2003	HANAKI ET AL.

Examiner Signature: /Cam N. Nguyen/

Date Considered

06/04/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO
**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**

Date Submitted: April 6, 2009

(use as many sheets as necessary)

Sheet 3 of 6

Complete if Known

Application Number	10/586,533
Filing Date	02/08/2005
First Named Inventor	Hirofumi YASUDA
Art Unit	1793
Examiner Name	Cam N. NGUYEN
Attorney Docket Number	040302-0579

U.S. PATENT DOCUMENTS

		Document Number		
/CNN/	A83	US-6,518,213-	02-11-2003	YAMAMOTO ET AL.
	A84	US-6,589,901-B2	07-08-2003	YAMAMOTO ET AL.
	A85	US-6,623,716-B2	09-23-2003	SUGA ET AL.
	A86	US-6,660,897-B1	12-09-2003	MARTCHAL-GEORGE ET AL.
	A87	US-6,680,279-B2	01-20-2004	CAI ET AL.
	A88	US-6,729,125-B2	05-04-2004	SUGA ET AL.
	A89	US-6,764,665-B2	07-20-2004	DEEBA ET AL.
	A90	US-6,787,500-B2	09-07-2004	ITO ET AL.
	A91	US-6,800,388-B2	10-05-2004	KANEKO ET AL.
	A92	US-6,861,372-B2	03-01-2005	RUTH ET AL.
	A93	US-6,861,387-B2	03-01-2005	RUTH ET AL.
	A94	US-6,887,443-B2	05-03-2005	SUGA ET AL.
	A95	US-6,887,444-B1	05-03-2005	YAMAMOTO, SHINJI
	A96	US-6,896,857-B2	05-24-2005	NAKAMURA ET AL.
	A97	US-6,926,875-B2	08-09-2005	HATANAKA ET AL.
	A98	US-7,029,514-B1	04-18-2006	YANG ET AL.
/CNN/	A99	US-RE 31,719-	10-30-1984	SONETAKA ET AL.

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Application Document Serial Number-Kind Code* (if known)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/CNN/	A100	11/722275	06-20-2007	NAKAMURA ET AL.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² -Number ³ -Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	⁴
/CNN/	A101	JP-09-122492-A	05-13-1997	NISSAN MOTOR CO., LTD.		Abst.
/CNN/	A102	JP-10-216517-A	08-18-1998	TOYOTA MOTOR CORP.		Abst.
/CNN/	A103	EP-1 043 065-A1	10-11-2000	TOYOTA JIDOSHA KABUSHIKI KAISHA		
/CNN/	A104	JP-2000-001119-A	01-07-2000	CALSONIC CORP.		Abst.
/CNN/	A105	JP-2000-015098-A	01-18-2000	JAPAN SCIENCE & TECHNOLOGY CORP., ET AL.		Abst.

Examiner Signature /Cam N. Nguyen/

Date Considered

06/04/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO
**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**

Date Submitted: April 6, 2009

(use as many sheets as necessary)

Complete if Known

Application Number	10/586,533
Filing Date	02/08/2005
First Named Inventor	Hirofumi YASUDA
Art Unit	1793
Examiner Name	Cam N. NGUYEN
Attorney Docket Number	040302-0579

Sheet 4 of 6

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
/CNN/	A106	JP-2000-042411-A	02-15-2000	TOYOTA MOTOR CORP., ET AL.		Abst.
	A107	JP-2000-279824-A	10-10-2000	TANAKA PRECIOUS METAL IND., ET AL.		Abst.
	A108	JP-2000-296339-A	10-24-2000	TOYOTA MOTOR CORP.		Abst.
	A109	JP-2001-198466-A	07-24-2001	TOYOTA MOTOR CORP.		Abst.
	A110	JP-2002-102703-A	04-09-2002	TOYOTA MOTOR CORP.		Abst.
	A111	JP-2003-080077-A	03-18-2003	DENSO CORP., ET AL.		Abst.
	A112	JP-2003-181290-A	07-02-2003	TOYOTA MOTOR CORP.		Abst.
	A113	JP-2003-181293-A	07-02-2003	TOYOTA MOTOR CORP.		Abst.
	A114	JP-2003-290658-A	10-14-2003	TOYOTA MOTOR CORP.		Abst.
	A115	JP-2003-290667-A	10-14-2003	TOYOTA MOTOR CORP.		Abst.
	A116	JP-2003-311128-A	11-05-2003	TOYOTA MOTOR CORP.		Abst.
	A117	JP-2004-082000-A	03-18-2004	TOYOTA MOTOR CORP.		Abst.
	A118	JP-2004-174490-A	06-24-2004	MAZDA MOTOR CORP.		Abst.
	A119	JP-2004-267961-A	09-30-2004	TANAKA KIKINZOKU KOGYO KK		Abst.
	A120	WO-2005/063390-A1	07-14-2005	NISSAN MOTOR CO., LTD.		
	A121	WO-2005/063391-A1	07-14-2005	NISSAN MOTOR CO., LTD.		
	A122	JP-2005-081183-A	03-31-2005	MITSUBISHI HEAVY IND., LTD.		Abst.
	A123	JP-2005-305300-A	11-04-2005	TOYOTA MOTOR CORP.		Abst.
	A124	JP-3251009-B2	11-16-2001	TOYOTA CENTRAL RES & DEV LAB INC., ET AL.		Abst.
V	A125	EP-0 466 984-A1	01-22-1992	UOP		
	A126	JP-56-010333-A	02-02-1981	TOYOTA MOTOR CORP.		Abst.
	A127	JP-58-186441-A	10-31-1983	ENGELHARD CORP.		
	A128	JP-59-230639-A	12-25-1984	NIPPON SHOKUBAI KAGAKU, ET AL.		Abst.
	A129	EP-0 931 590-B1	07-28-1999	MAZDA MOTOR CORP.		
	A130	EP-0 940 176-A2	09-08-1999	TOYOTA JIDOSHA KABUSHIKI KAISHA		
	A131	WO-95/32790-A1	12-07-1995	ALLIEDSIGNAL ENVIRONMENTAL CATALYSTS		
	A132	WO-97/09114-A1	03-13-1997	INSTITUTIONEN FOR KEMITEKNIK KEMISK TEKNOLOGI KTH		

Examiner Signature

/Cam N. Nguyen/

Date Considered

06/04/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: April 6, 2009 (use as many sheets as necessary)		Application Number	10/586,533
		Filing Date	02/08/2005
		First Named Inventor	Hirofumi YASUDA
		Art Unit	1793
		Examiner Name	Cam N. NGUYEN
		Attorney Docket Number	040302-0579
Sheet	5	of	6

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
/CNN/	A133	A. Martinez-Arias et al., "Study of the lean NOx reduction with C3H6 in the presence of water over silver/alumina catalysts prepared from inverse microemulsions," Applied Catalysts B: Environmental, Vol. 28, 2000, pages 29-41.	
	A134	H. WAKAMATSU et al., US PTO Office Action 11/578,295, 03-19-2009, 8 pgs.	
	A135	H. WAKAMATSU et al., US PTO Office Action 11/578,295, 10-02-2008, 15 pgs.	
	A136	H. WAKAMATSU, et al., US PTO Office Action 11/079,270, 03-04-2009, 6 pgs.	
	A137	H. WAKAMATSU, et al., US PTO Office Action 11/079,270, 05-12-2008, 7 pgs.	
	A138	H. WAKAMATSU, et al., US PTO Office Action 11/079,270, 07-21-2008, 5 pgs.	
	A139	H. WAKAMATSU, et al., US PTO Office Action 11/079,270, 08-25-2008, 20 pgs.	
	A140	K. SHIRATORI, et al., US PTO Office Action 10/584,346, dated 07-11-2008, 5 pgs.	
	A141	K. SHIRATORI, et al., US PTO Office Action 10/584,346, dated 11-18-2008, 19 pgs.	
	A142	K. SHIRATORI, et al., US PTO Office Action 11/079,377, dated 03-12-2009, 7 pgs.	
	A143	K. SHIRATORI, et al., US PTO Office Action 11/079,377, dated 05-08-2008, 6 pgs.	
	A144	K. SHIRATORI, et al., US PTO Office Action 11/079,377, dated 07-28-2008, 18 pgs.	
✓ /CNN/	A145	M. CHE et al., "A Study of the Chemisorption of Nitric Oxide on PdY Zeolite, Evidence for a Room Temperature Oxidative Dissolution of Pd Crystallinities," The Journal of Physical Chemistry, Vol. 60, No. 21, 1976, 11 pgs.	

Examiner Signature	/Cam N. Nguyen/	Date Considered	06/04/2009
--------------------	-----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: April 6, 2009 (use as many sheets as necessary)		Application Number	10/586,533
		Filing Date	02/08/2005
		First Named Inventor	Hirofumi YASUDA
		Art Unit	1793
		Examiner Name	Cam N. NGUYEN
		Attorney Docket Number	040302-0579
Sheet	6	of	6

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
/CNN/	A146	M. NAKAMURA et al., US PTO Office 10/589,890, dated 07-15-2008, 5 pgs.	
	A147	M. NAKAMURA et al., US PTO Office 10/589,890, dated 11-18-2008, 13 pgs.	
	A148	M. NAKAMURA et al., US PTO Office Action 10/584,243, dated 08-06-2008, 5 pgs.	
	A149	M. NAKAMURA et al., US PTO Office Action 10/584,243, dated 12-28-2008, 24 pgs.	
	A150	PH. BUFFAT AND J-P BOREL, "Size effect on the melting temperature of gold particles," Physical Review A, June 1976, Vol. 13, No. 6, 12 pgs.	
	A151	R. WILLIS, "PUMICE, Porous Volcanic Rock," Online, XP002364316, URL: http://ceramic-materials.com/cerama/material/2009.html .	
	A152	S. ERIKSSON, et al., "Preparation of Catalysts from Microemulsions and Their Applications in Heterogeneous Catalysis," Applied Catalysis A: General, Vol. 265, No. 2, July 8, 2004, pp. 207-219.	
	A153	T. Kinoshita et al., "Magnetic evaluation of nanostructure of gold-iron composite particles synthesized by a reverse micelle method," Journal of Alloys and Compounds, Vol. 359, No. 1-2, Sept. 22, 2003, pages 46-50.	
✓	A154	T. Shimizu et al., "Size Evolution of Alkanethiol-Protected Gold Nanoparticles by Heat Treatment in the Solid State", J. Phys. Chem. B, 107, 2003, pages 2719-2724.	
/CNN/	A155	W.Y. Kim et al., "Methanol synthesis from syngas over supported palladium catalysts prepared using water-in-oil microemulsion," Applied Catalysis A: General, Vol. 169, 1998, pages 157-164.	

Examiner Signature	/Cam N. Nguyen/	Date Considered	06/04/2009
--------------------	-----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.